

- ☒ Drafts  
☐ Pending  
☒ Active
- ☒ L1: (66582) (FMCW or CWFM or FM-CW or CW-FM or ((frequency adj (modulated c
  - ☒ L2: (86747) radar
  - ☒ L3: (6753) 1 and 3
  - ☒ L4: (3009598) (((collision or collide or colliding) noise (avoid or avoiding or avoidance)) or
  - ☒ L5: (1665) 3 and 4
  - ☒ L6: (761606) (overhead or overbridge or bridge)
  - ☒ L7: (1419409) (height)
  - ☒ L8: (65783) (obstacle or obstruction or danger or dangerous)
  - ☒ L9: (17205) 6 and 7 and 8
  - ☒ L10: (101) 5 and 9
  - ☒ L11: (55047) (VCO or (voltage adj controlled adj oscillator))
  - ☒ L12: (22) 10 and 11
  - ☒ L13: (1739) ((34270-72) or (342123) or (342455)) CCLS
  - ☒ L14: (120) 6 and 11
  - ☒ L15: (1739) ((34270-72) or (342123) or (342455)) CCLS
  - ☒ L16: (1054) 15 and @ad-c-20030121"
- ☒ Failed  
☒ Saved  
☒ Favorites  
☒ Tagged (10)  
☒ IDC  
☒ Queue  
☒ Trash

[Icons]

File Edit Tools Window Help

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34270-72

342123

342455

Document	Title	Investor	Current O/C
1	Document 1		

[Icons]

[Icons]

Search Terms	Total	USPAT	US-PGP	EPO	JPO	Derwent
1	342123	201				
2	342455	479				
3	34270	879				
4	34271	579				
5	34272	213				
6	342123 3427 1739					

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	66582	(FMCW or CWFM or FM-CW or CW-FM or ((frequency adj (modulated or modulating or modulation)) or frequency-modulated))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:55
L2	86747	radar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:56
L3	6353	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:56
L4	3009598	((collision or collide or colliding) same (avoid or avoiding or avoidance)) or CAS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:56
L5	1665	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:57
L6	761606	(overhead or overbridge or bridge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:57
L7	1419409	(height)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:57
L8	657871	(obstacle or obstruction or danger or dangerous)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:57

L9	17205	6 and 7 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:57
L10	101	5 and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 07:58
L11	55047	(VCO or (voltage adj controlled adj oscillator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:01
L12	22	10 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:06
L13	1739	((342/70-72) or (342/123) or (342/455)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/13 08:07
L14	120	6 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:07
L15	1739	((342/70-72) or (342/123) or (342/455)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/13 08:33
L16	1054	15 and @ad<="20030121"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/13 08:33

# SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

**SERIAL NUMBER**

10762088

## **EAST SEARCH**

EAST: search history attached

## **IEEE SEARCH**

Recent Search Queries	Results
<u>#1</u> (((fmcw or cwfm or fm-cw or cw-fm or ((frequency and (modulated or modulating or modulation)) or frequency-modulated)) and radar)<in>metadata)	935
<u>#2</u> (((fmcw or cwfm or fm-cw or cw-fm or ((frequency and (modulated or modulating or modulation)) or frequency-modulated)) and radar)<in>metadata)	935
<u>#3</u> ((((((fmcw or cwfm or fm-cw or cw-fm or ((frequency and (modulated or modulating or modulation)) or frequency-modulated)) and radar)<in>metadata)<AND>((fmcw or cwfm or fm-cw or cw-fm or ((frequency and (modulated or modulating or modulation)) or frequency-modulated)) and radar and (((collision or collide or colliding) and (avoid or avoiding or avoidance)) or cas)<in>metadata)))	12

### **1. Vehicle collision warning and avoidance system using real-time FFT**

Flikkema, P.G.; Johnson, S.G.

Vehicular Technology Conference, 1996. 'Mobile Technology for the Human Race', IEEE 46th

Volume 3, 28 Apr-1 May 1996 Page(s):1820 - 1824 vol.3

### **2. Homodyne FMCW radar range resolution effects with sinusoidal nonlinearities in the frequency sweep**

Piper, S.O.

Radar Conference, 1995., Record of the IEEE 1995 International 8-11 May 1995 Page(s):563 - 567

### **3. Monopulse Doppler radar for vehicle applications**

Woll, J.D.

Intelligent Vehicles '95 Symposium., Proceedings of the 25-26 Sep 1995 Page(s):42 - 47

### **4. An FMCW radar sensor for collision avoidance**

Richardson, D.

Intelligent Transportation System, 1997. ITSC 97. IEEE Conference on 9-12 Nov 1997 Page(s):427 - 432

### **5. IEE Colloquium on Automotive Radar and Navigation Techniques (Ref. No.1998/230)**

Automotive Radar and Navigation Techniques (Ref. No. 1998/230), IEE Colloquium on 9 Feb 1998

### **6. 77 GHz MMIC T/R module for duplex radar application in collision avoidance radar (CAR)**

Mondal, J.; Wong, K.; Richardson, D.; Vu, K.; Peterson, K.; Dietz, G.; Haubenstricker, R.; Calanca, N.; Gluck, L.; Moghe, S.

Gallium Arsenide Integrated Circuit (GaAs IC) Symposium, 1998. Technical Digest

1998., 20th Annual  
1-4 Nov 1998 Page(s):181 - 184

**7. A front-end of FMCW anticollision radar**

Jing Chunguang; Yang Xiaobo  
Microwave and Millimeter Wave Technology, 2000, 2nd International Conference on.  
ICMMT 2000  
2000 Page(s):568 - 571

**8. Dual-Mode Automobile Collision Avoidance RADAR**

Kaplan, G.S.; Sterzer, F.  
Microwave Symposium Digest, MTT-S International  
Volume 75, Issue 1, May 1975 Page(s): 335 - 337

**9. Integrated object and road border tracking using 77 GHz automotive radars**

Polychronopoulos, A.; Amditis, A.; Floudas, N.; Lind, H.  
Radar, Sonar and Navigation, IEE Proceedings -  
Volume 151, Issue 6, 10 Dec. 2004 Page(s): 375 - 381

**10. An automotive radar network based on 77 GHz FMCW sensors**

Folster, F.; Rohling, H.; Lubbert, U.  
Radar Conference, 2005 IEEE International  
9-12 May 2005 Page(s): 871 - 876

## INSPEC SEARCH

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	(FMCW OR CWFM OR FM-CW OR CW-FM OR frequency AND (modulated OR modulating OR modulation) OR frequency-modulated) AND radar AND ((collision OR collide OR colliding) SAME (avoid OR avoiding OR avoidance) OR CAS)	unrestricted	43	

INSPEC - 1969 to date (INZZ)

Title

Radar reflects safer highways.

Author(s)

Marsh-D.

Source

EDN (US Edition)(USA), vol.48, no.9, p.51-60, 24 April 2003. , Published: Cahners Publishing.

COPYRIGHT BY Inst. of Electrical Engineers, Stevenage, UK

INSPEC - 1969 to date (INZZ)

Title

Application of time-frequency analysis for radar signal processing in millimeter-wave collision prevention radar system.

Author(s)

Jin-Chang-ming; Xu-Tao; Sun-Xiao-wei; Xia-Guan-qun; Sheng-Huai-mao; Li-Yu-fang.

Source

Acta-Electronica-Sinica (China), vol.30, no.9, p.1413-16, Sept. 2002. , Published: Chinese Inst. Electron.

**INSPEC - 1969 to date (INZZ)**

**Title**

An FMCW radar sensor for collision avoidance.

**Author(s)**

Richardson-D.

**Source**

Proceedings of Conference on Intelligent Transportation Systems, Boston, MA, USA, 9-12 Nov. 1997.

In: p.427-32, 1997.

## **IP.COM SEARCH**

**Search terms:**

(FMCW or CWFM or FM-CW or CW-FM or ((frequency and (modulated or modulating or modulation)) or frequency-modulated)) and radar and (((collision or collide or colliding) same (avoid or avoiding or avoidance)) or CAS)

Result # 1      Relevance: 

Low probability of intercept radar using atmospheric loss.

12-Sep-2000

IPCOM000001102D

English (United States)

A low probability of intercept radar apparatus and technique involving operation at the lower water vapor absorption resonance frequency of 22.2 GHz wherein the radar beam is shaped such that it is restricted to low altitude and short range coverage. The system is ...